Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A system <u>base station (BS)</u> for transmitting a sequence of data blocks from a transmitter to a receiver, the <u>BS</u> system comprising:

a plurality of transmit processors for transmitting the sequence of data blocks, each data block including an identification of the transmit processor that transmits the data block;

a scheduler for assigning each data block to the transmit processor that is released most recently from transmission[[;]]

a plurality of receive processors for receiving the transmitted data blocks; and

whereby an error in transmission of a data block is detected using said identification.

2. (Currently Amended) The <u>BS</u> system of claim 1, further comprising:

receiving wherein a receive processor transmits an acknowledgement when a data block is transmitted received without error, thereby releasing the corresponding transmit processor for transmission of the next data block.

3. (Currently Amended) The <u>BS</u> system of claim 1 wherein a sequence number of the data block is transmitted to the receive processor.

4. (Currently Amended) The <u>BS</u> system of claim 3 wherein <u>an</u> said error is detected when a sequence number is missing.

5. (Currently Amended) The <u>BS</u> system of claim 1 wherein the said identification is a tag attached to the data block.

6. (Currently Amended) The <u>BS</u> system of claim 1 wherein <u>the</u> said identification is transmitted separately from the data block.

7. (Currently Amended) A method for transmitting a sequence of data blocks from a transmitter to a receiver, the method comprising the steps of:

assigning a data block to a transmit processor that is released most recently from transmission;

transmitting the data block by the assigned transmit processor with an identification of the transmit processor that transmits the data block[[;]]

receiving the transmitted data block-by a receive processor;

--- reordering the received data blocks into the sequence; and,

- detecting an error in transmission of a data block using said identification.

8. (Currently Amended) The method of claim 7 further comprising: the step ef assigning a sequence number to each data block.

9. (Cancelled).

- 10. (Currently Amended) The method of claim 7 further comprising the step of sending receiving an acknowledgement to a transmit processor when a the receive processor receives a data block without error, whereby the corresponding transmit processor is released for transmission of the next data block.
- 11. (Currently Amended) The method of claim 7 wherein said the identification is transmitted separately from said the data block.
- 12. (Currently Amended) The method of claim 7 wherein said the identification is a tag attached to the data block.
- 13. (New) A wireless transmit/receive unit (WTRU), the WTRU comprising:

a plurality of receive processors for receiving a sequence of data blocks, each data block including an identification of a base station (BS) that transmitted the data block; and

a reordering processor for reordering the received data blocks into a sequence, whereby an error in transmission of a data block is detected using the identification.

14. (New) The WTRU of claim 13 wherein one of the plurality of receive processor transmits an acknowledgement when a data block is received without error, thereby releasing the corresponding transmit processor for transmission of the next data block.

15. (New) The WTRU of claim 13 wherein a sequence number of the data block is received.

16. (New) The WTRU of claim 15 wherein the error is detected when a sequence number is missing.

17. (New) The WTRU of claim 13 wherein the identification is a tag attached to the data block.

18. (New) The WTRU of claim 13 wherein the identification is transmitted separately from the data block.

19. (New) A method for receiving a sequence of data blocks, the method comprising:

receiving the transmitted data block by a receive processor, including an identification of the transmit processor that transmitted the data block;

reordering the received data blocks into the sequence; and detecting an error in transmission of a data block using the identification.

- 20. (New) The method of claim 19 wherein the error is detected when a sequence number is missing.
- 21. (New) The method of claim 19 further comprising transmitting an acknowledgement when the receive processor receives a data block without error,

whereby a corresponding transmit processor is released for transmission of the next data block.

- 22. (New) The method of claim 19 wherein the identification is received separately from the data block.
- 23. (New) The method of claim 19 wherein the identification is a tag attached to the data block.